

# Converting Colors

CIELCh(66, 4.708, 88.985)

Have a look what the booklet for  
CIELCh(66, 4.708, 88.985) contains.

<b>CIELCh(66, 4.670, 90.194)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	11
<i><b>Previews</b></i> .....	20
<i><b>Color Blindness Simulation</b></i> .....	23
<i><b>CSS Examples</b></i> .....	26

# **Color**

**CIELCh(66, 4.670, 90.194)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A4A098
RGB	164, 160, 152
RGB Percent	64%, 63%, 60%
CMY	0.3567, 0.3724, 0.4037
CMYK	0.00, 0.02, 0.07, 0.36
HSL	40°, 6%, 62%
HSV	40°, 7%, 64%
XYZ	33.5697, 35.3238, 34.7748
YIQ	160.2840, 4.9520, -1.6400

# Conversions

## Conversions Part 2

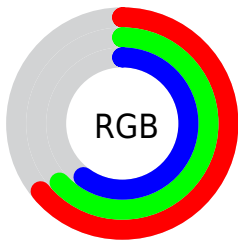
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">158, 164, 152</a>
Decimal	<a href="#">10789016</a>
CIELab	<a href="#">66.00, -0.02, 4.67</a>
CIELCh	<a href="#">66, 4.670, 90.194</a>
Yxy	<a href="#">35.3238, 0.3238, 0.3407</a>
Android (android.graphics.Color)	<a href="#">4288979096</a> ( <a href="#">0xFFA4A098</a> )
YUV	<a href="#">160.2840, -4.0840, 3.2589</a>
Hunter-Lab	<a href="#">59.4338, -3.1880, 6.9131</a>

# Details

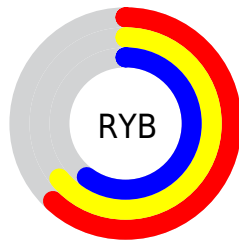
The CIELCh color **66, 4.670, 90.194** is a light color, and the websafe version is hex **999999**. A complement of this color would be **64, 4.677, 272.110**, and the grayscale version is **66, 0.008, 296.813**.

A 20% lighter version of the original color is **86, 4.913, 92.350**, and **46, 4.890, 94.534** is the 20% darker color. If you saturate the color by 10%, you get **64, 11.184, 88.991**, and if you desaturate by 10%, it is **68, 1.707, 271.586**.

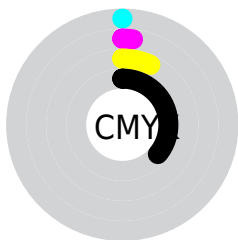
# Distribution



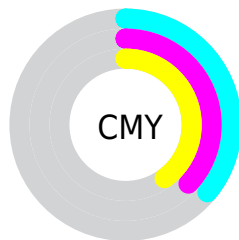
- Red (64%)
- Green (63%)
- Blue (60%)



- Red (62%)
- Yellow (64%)
- Blue (60%)



- Cyan (0%)
- Magenta (2%)
- Yellow (7%)
- Black (36%)



- Cyan (36%)
- Magenta (37%)
- Yellow (40%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 66, 4.670, 90.194 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the CIELCh color 66, 4.670, 90.194 by changing the saturation by 10% instead.



 66, 4.670, 90.194       66, 4.670, 90.194

 100, 4.670, 90.194       56, 4.670, 90.194

 86, 4.670, 90.194       46, 4.670, 90.194

 96, 4.670, 90.194       36, 4.670, 90.194

 26, 4.670, 90.194

 16, 4.670, 90.194

 6, 4.670, 90.194

 0, 4.670, 90.194

 66, 4.670, 90.194       66, 4.670, 90.194

 64, 11.184, 88.991       68, 1.707, 271.586

62, 17.826, 87.708

70, 7.954, 272.648

61, 24.575, 86.382

72, 14.076,  
273.745

59, 31.380, 85.017

74, 20.083,  
274.797

57, 38.138, 83.605

55, 44.652, 82.123

76, 25.982,  
275.799

54, 50.573, 80.520

78, 31.784,  
276.751

52, 55.356, 78.690

51, 58.523, 76.514

79, 31.585,  
273.491

81, 29.340,  
268.017

82, 27.397,  
261.767

# Harmonies

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



66, 4.670, 90.194



64, 4.677, 272.110

# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



66, 4.670, 90.194



66, 4.670, 140.194



66, 4.670, 270.194



66, 4.670, 320.194

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



66, 4.671, 90.215



85, 1.571, 90.740



64, 5.158, 354.281



45, 0.891, 90.744



93, 0.011, 296.813



45, 0.006, 296.813



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



66, 4.671, 90.215



84, 7.157, 89.995



67, 6.652, 116.192



34, 3.606, 89.984



45, 54.317, 76.257



4, 5.264, 86.256





# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



64, 4.677, 272.110



81, 7.158, 272.351



63, 6.766, 297.241



32, 3.606, 272.363



24, 63.089, 295.901



2, 5.768, 273.572



# Previews

## White Background



This preview shows how the CIELCh color 66, 4.670, 90.194 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIE LCh color 66, 4.670, 90.194 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

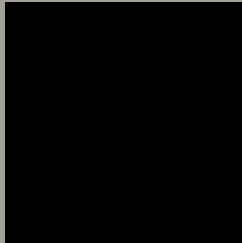
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

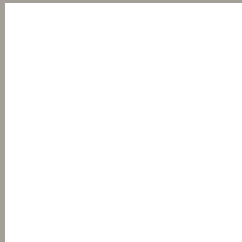
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 66, 4.670, 90.194**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 66, 4.670, 90.194.



This preview shows how white text looks on a background with the CIELCh color 66, 4.670, 90.194.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color


66, 4.670, 90.194

### Protanopia

66, 4.813, 85.781

### Deuteranopia

66, 9.540, 26.837



**Tritanopia**  
66, 8.170, 318.185



# Trichromacy



**Original Color**  
66, 4.670, 90.194

**Protanomaly**  
66, 4.813, 85.781

**Deuteranomaly**  
66, 7.034, 38.153

**Tritanomaly**  
66, 4.143, 337.753

# Monochromacy



**Original Color**  
66, 4.670, 90.194

**Achromatopsia**  
66, 0.008, 296.813

**Achromatomaly**  
66, 1.692, 96.855

# CSS Examples

## Text

The CSS property to change the color of the text to CIElCh 66, 4.670, 90.194 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(164, 160, 152)` looks like.

```
.text, #text, p{  
    color:rgb(164, 160, 152)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(164, 160, 152) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(164, 160, 152) }
```

## Border

The CSS property to change the border of an element to CIELCh 66, 4.670, 90.194 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(164, 160, 152) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(164, 160, 152) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(164, 160, 152)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(164, 160, 152); -webkit-box-  
shadow:4px 4px 4px 4px rgb(164, 160, 152);  
box-shadow:4px 4px 4px 4px rgb(164, 160,  
152) }
```

# Background

The CSS property to change the background color of an element to CIELCh 66, 4.670, 90.194 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(164, 160, 152) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(164,  
160, 152) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor